

## INTERNATIONAL SEARCH REPORT

Internat

Application No

PCT/US2004/021682

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 G02F1/01 G02F1/313

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 12, 25 December 1997 (1997-12-25) -& JP 09 211501 A (NIPPON TELEGR & TELEPH CORP <NTT>), 15 August 1997 (1997-08-15) figures 1,3,4; examples 1,2,5; table 2 -& JP 03 188402 A (NIPPON TELEGR & TELEPH CORP <NTT>) 16 August 1991 (1991-08-16) example 6; table 1 ----- -/-	1-27
A	-----	7-9, 20-22

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

Date of mailing of the International search report

20 April 2005

03/05/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05, 30 April 1998 (1998-04-30) -& JP 10 020348 A (NIPPON TELEGR & TELEPH CORP <NTT>), 23 January 1998 (1998-01-23) abstract; figures 1,2	1,2,5,7, 8,10,13, 14, 19-21, 23,26,27
Y	-----	9,22
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 241838 A (NIPPON TELEGR & TELEPH CORP <NTT>), 8 September 2000 (2000-09-08) abstract	1,2,5-8, 10-14, 18-21, 23-27
Y	paragraphs '0004!, '0018! - '0031!; figures 1,2,4	9,22
Y	BLOMQUIST R ET AL: "Fluorinated acrylates in making low-loss, low-birefringence, and single-mode optical waveguides with exceptional thermo-optic properties" PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING SPIE-INT. SOC. OPT. ENG USA, vol. 3799, July 1999 (1999-07), pages 266-279, XP002325316 ISSN: 0277-786X the whole document	9,22
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Information on patent family members

Intern:

Application No  
PCT/US2004/021682

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 09211501	A	15-08-1997	NONE		
JP 3188402	A	16-08-1991	JP 2599497 B2	09-04-1997	
			CA 2026042 A1	28-03-1991	
			DE 69029357 D1	23-01-1997	
			DE 69029357 T2	24-04-1997	
			DE 69033555 D1	29-06-2000	
			DE 69033555 T2	18-01-2001	
			EP 0420592 A2	03-04-1991	
			EP 0658782 A2	21-06-1995	
			EP 0658783 A2	21-06-1995	
			KR 9400088 B1	05-01-1994	
			US 5062680 A	05-11-1991	
JP 10020348	A	23-01-1998	NONE		
JP 2000241838	A	08-09-2000	JP 3478751 B2	15-12-2003	

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